WebObjects Tools

Session 607

These are confidential sessions—please refrain from filming or taking pictures.

Enterprise IT

WebObjects Tools

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WebObjects Engineer

http://developer.apple.com/wwdc2005/

Session Roadmap

- WebObjects overview
  - Framework stack
  - Request/Response loop
- Development workflow
  - Data modeling
  - Prototyping
  - Writing custom objects
  - Customizing your UI
- Q&A

WebObjects Architecture

Data Access

JDBC Database

JNDI Directory

Business Logic

Java Code

Presentation

Web App

Web Services

Java App

WebObjects Framework Stack

AppServer

DirectToWeb

DirectToWebServices

DirectToJavaClient

AppServer

Enterprise Objects Framework

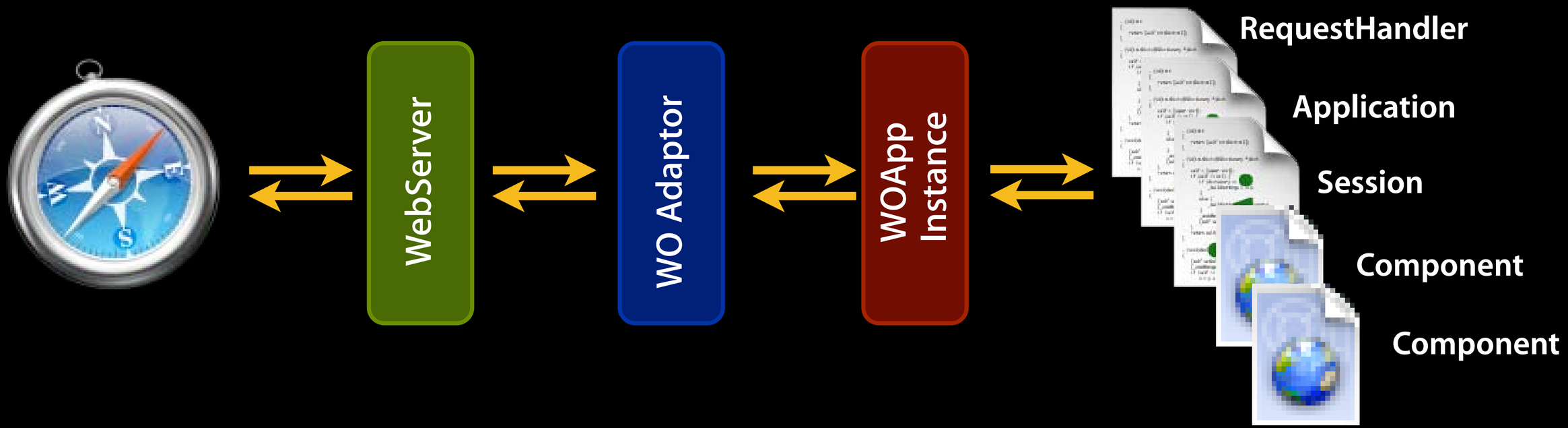
EOInterface

EOControl

EOAccess

JavaFoundation

The Request—Response Loop



Development Workflow

Data Access

JDBC Database

EOModeler

JNDI Directory

Business Logic

Xcode

Java Code

Presentation

WebObjects Builder

Web App

WebServices Assistant

Web Services Client

Interface Builder

Java App

Your Data

The nuts and bolts of the machine

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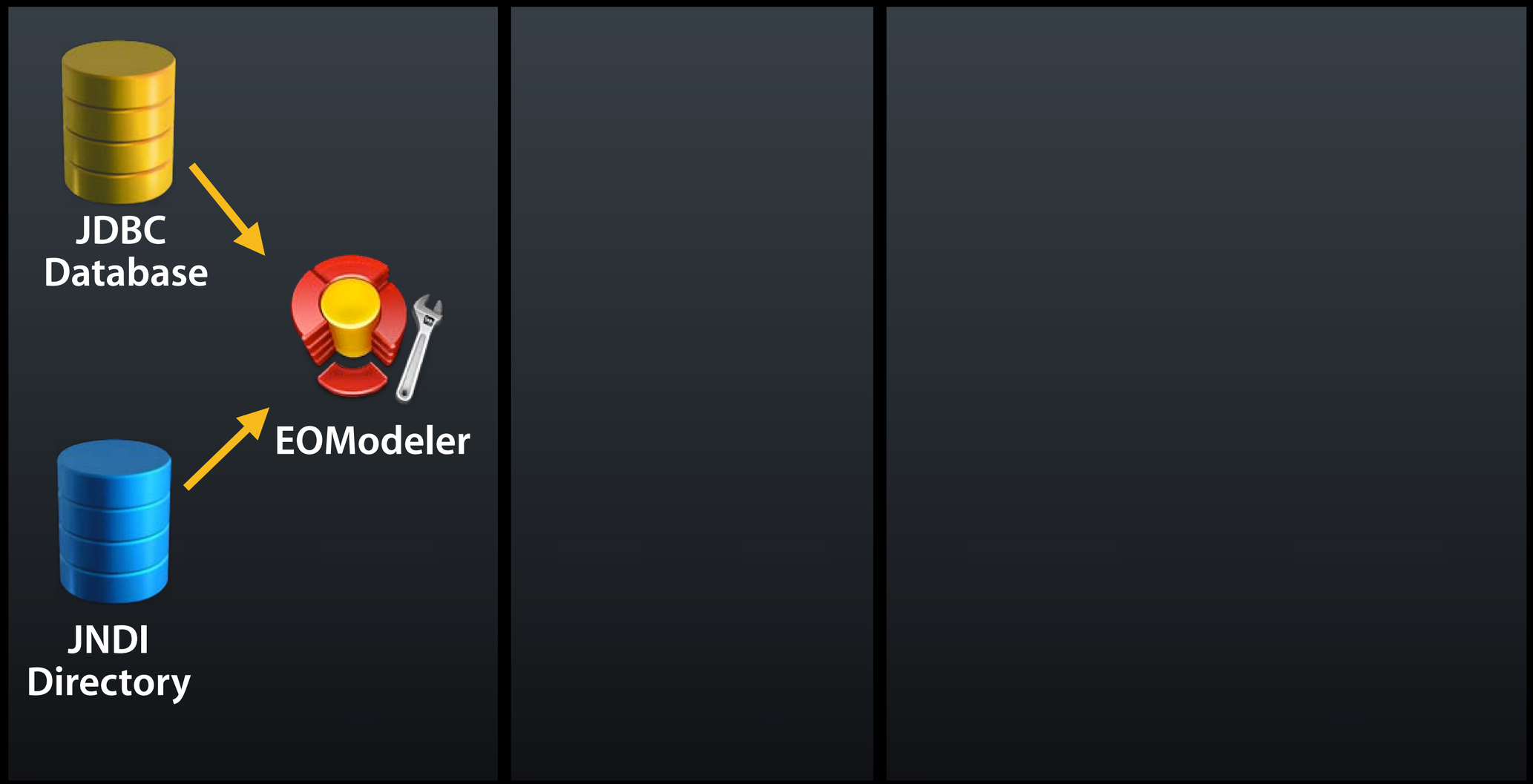
Development Workflow



EOModeler

The face of EOF frameworks

- Maps relational data structures to java objects
  - Tables to entities
  - Columns to attributes
  - Joins to relationships
- Builds data models
  - Reverse engineers models from existing data sources
  - Create new schemas
- Source code generation
- Data browsing
- **Xcode plugin**

Rapid Prototyping

Quickly turn a model into a working application

- Proof of concepts
- Internal tools
- Administration applications

DirectTo* Technologies

- DirectToWeb
- DirectToWebServices
- DirectToJavaClient

Demonstration

Reverse engineering an existing DataStore

Rapid application prototyping with DirectToWeb

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Your Logic

Fine tuning a well oiled machine

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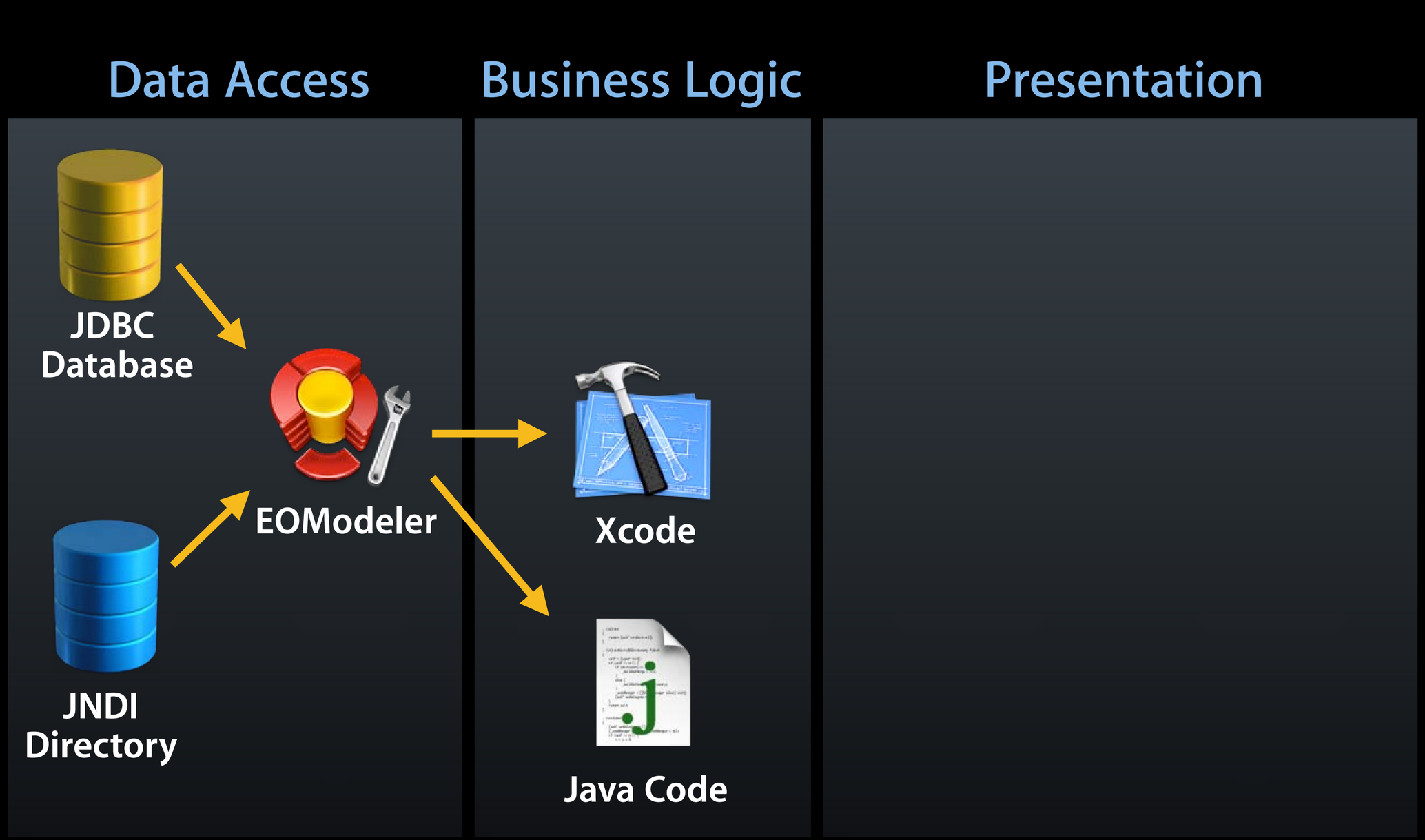
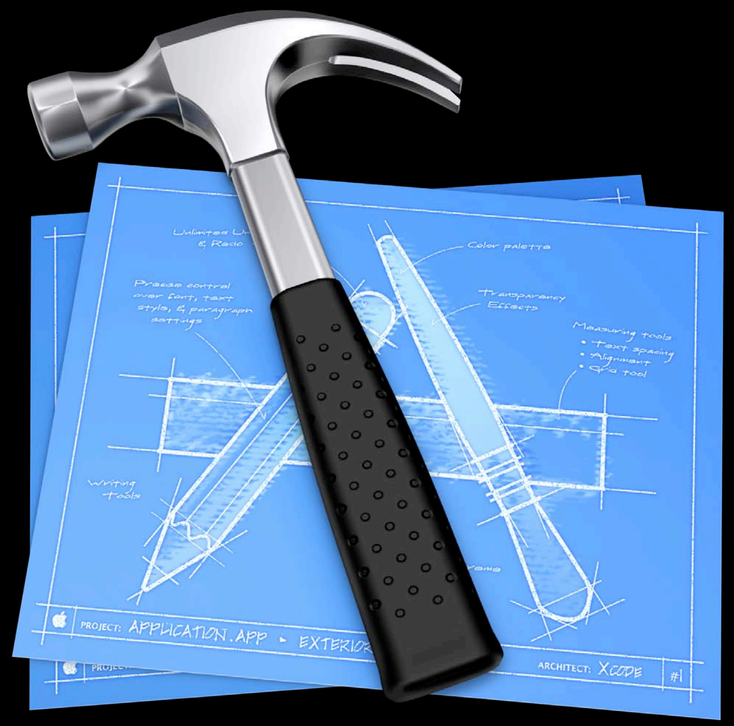
Development Workflow





Xcode

Preferred IDE for WebObjects Development on Mac OS X

- Compile
- Debug
- Version Control
- Documentation
- Project Assistants

Demonstration

Using Xcode to write custom business logic

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Your Look

Chrome and racing stripes are faster, yes?

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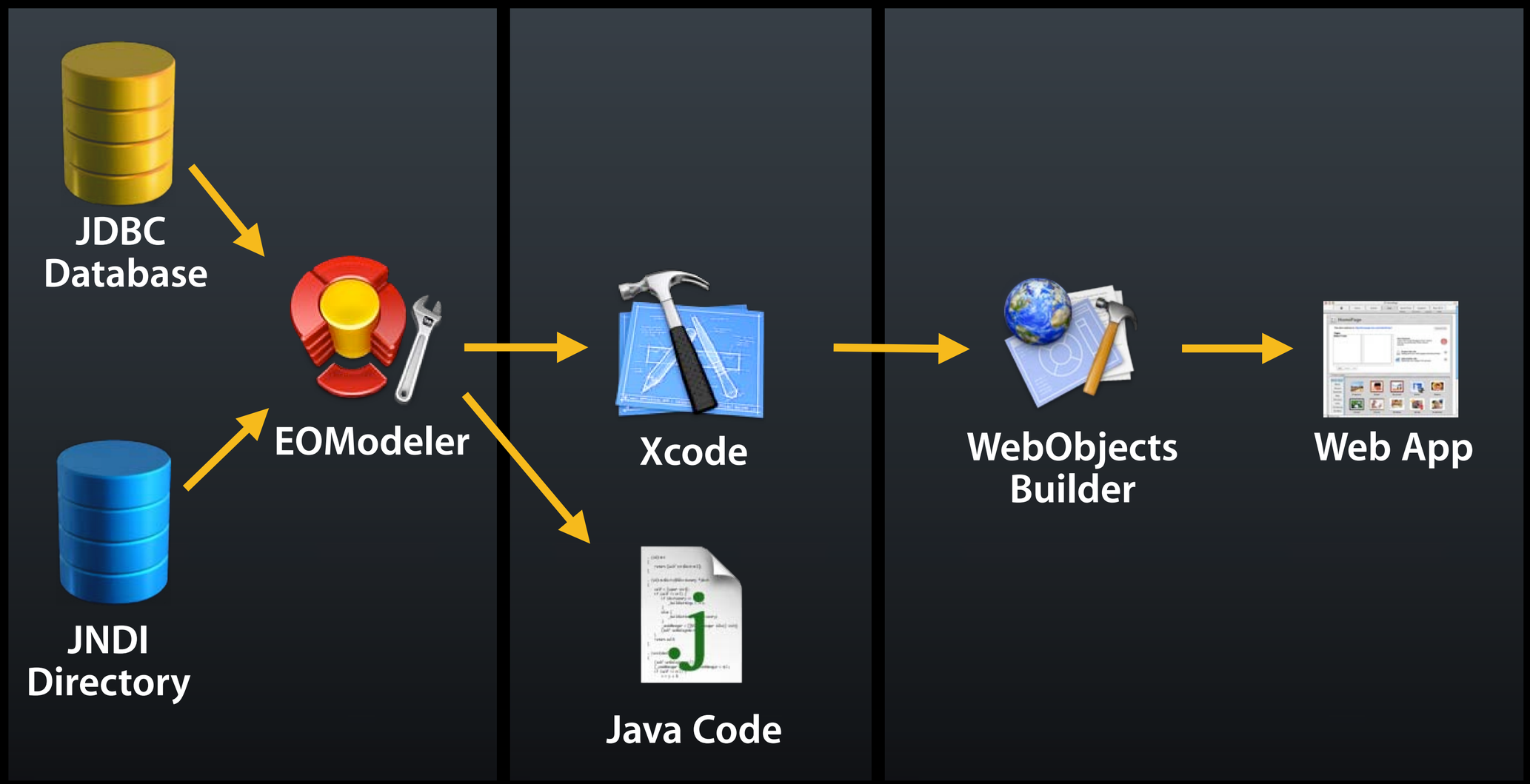
Development Workflow



WebObjects Builder

Visual content creation

- Build WOComponents with dynamic elements
- Rich collection of re-useable components
- Easy to plug in third-party components

Ties data to UI

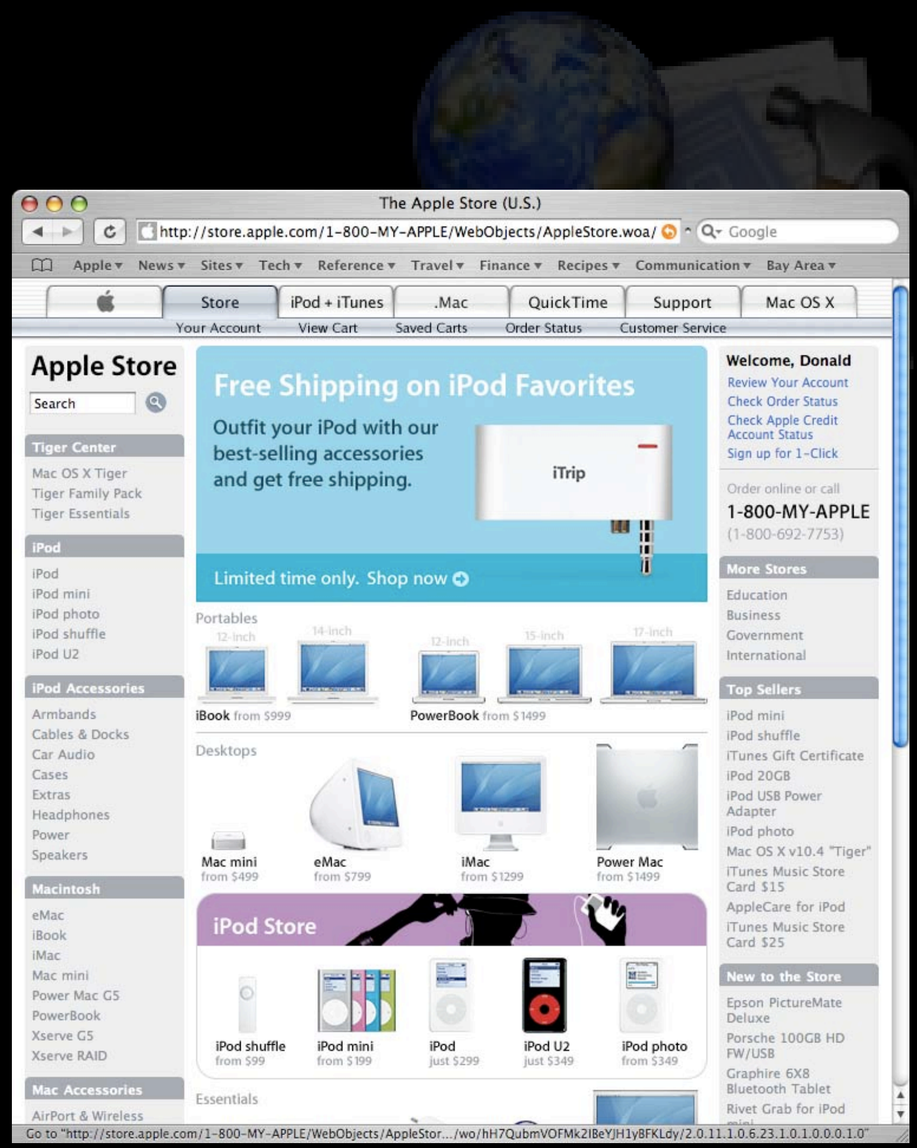
Rapid turnaround mode

WebObjects Builder

- Standards compliance
  - HTML 4.01
  - XHTML
  - CSS
- WebKit based pre-view mode

WOComponent

The building block of your UI



WOComponent

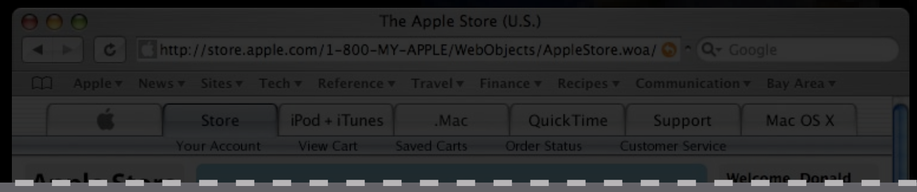
The building block of your UI

HTML template

defines the look of the component

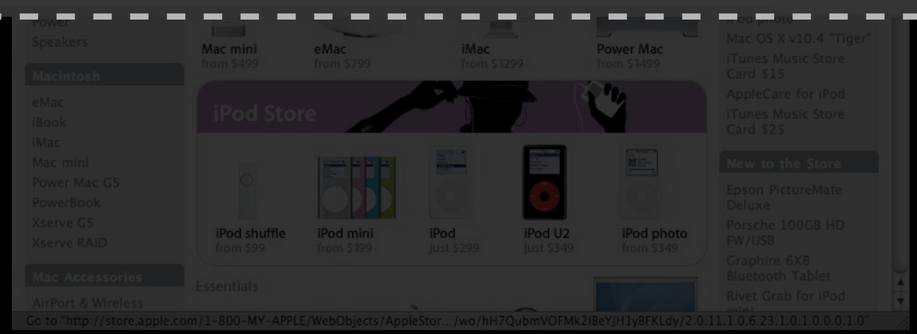
WOComponent

The building block of your UI



HTML template

```
<webobject name="Person">
</webobject>
```



WOComponent

The building block of your UI

HTML template

defines the look of the component

WOD File

glue between template and app logic

WOComponent

The building block of your UI

HTML template

defines the look of the component

WOD File

glue between template and app logic

Java Class

defines the component logic

WOComponent

The building block of your UI

MyComponent.html

defines the look of the component

MyComponent.wod

glue between template and app logic

MyComponent.java

defines the component logic

WOComponent

The building block of your UI

MyComponent.wo

component template and glue

MyComponent.java

defines the component logic

Demonstration

Authoring content with WebObjects Builder

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Summary

http://developer.apple.com/wwdc2005/

Session Roadmap

- WebObjects Architecture
- Development Workflow
  - EOModeler
  - Rapid Prototyping
  - Xcode
  - WebObjects Builder

More Information

http://developer.apple.com/wwdc2005/

Documentation, Sample Code, and Other Resources

http://developer.apple.com/webobjects

Related Sessions

WebObjects and J2EE Deployment Workshop	Session 610 Tuesday 5:00PM
Administering MySQL Databases	Session 648 Thursday 9:00AM
Configuring and Deploying Oracle on Mac OS X Server	Session 634 Friday 9:00AM
WebObjects Performance Optimization	Session 637 Friday 2:00PM
WebObjects Development	Enterprise IT Lab Wednesday 9:00AM
Java and WebObjects Feedback Forum	Session 641 Friday 3:30PM

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Worldwide Developers Conference